Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:
Listing of Claims:

1-83 (Cancelled).

84. (New) A method of treating potatoes during storage, comprising

contacting said potatoes with a hydrogen peroxide solution, and inhibiting sprouting of said potatoes, the improvement wherein:

said hydrogen peroxide solution is at a maximum pH of 6; contains metallic ions of at least one of silver, copper and zinc, said metallic ions being present in an amount of 10 ppb to 20,000 ppm; and contains at least one of peracetic, nitric, sulfuric and phosphoric acid;

said solution is applied in the form of a dry fog, fumes or smoke, wherein said solution comprises microdroplets having a particle size of 0.001 to 100 microns,

said potatoes are maintained at a high relative humidity during storage, and

sprouting of said potatoes is inhibited.

85. (New) The method of claim 84 wherein said pH is no greater than 4.

- 86. (New) The method of claim 85 wherein said metallic ions comprises silver ion in an amount of 50 ppb to 10,000 ppm.
- 87. (New) The method of claim 86 wherein said acid comprises phosphoric acid.
- 88. (New) The method of claim 87 wherein said microdroplets have a maximum particle size of 10 microns.
- 89. (New) The method of claim 88 wherein said treating comprises fogging, and said fogging comprises an air to liquid volume ratio of between 300:1 and 1200:1.
- 90. (New) The method of claim 89 wherein said fogging comprises an air to liquid volume ratio of between 500:1 and 700:1.
- 91. (New) The method of claim 84 wherein the concentration of hydrogen peroxide in said hydrogen peroxide solution is 0.1-15%.
- 92. (New) The method of claim 86 wherein said microdroplets have a maximum particle size of 30 microns.
- 93. (New) The method of claim 84 wherein said potatoes are stored for at least five months, and said treatment is repeated intermittently during said storage,

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intervals between said treatments being approximately 3 or $\bf 4$ weeke:

94. (new) The method of claim 93 wherein said potatoes are maintained at a temperature of at least 10°C during storage.

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intervals between said treatments being approximately 3 or 4 weeks.

94. (new) The method of claim 93 wherein said potatoes are maintained at a temperature of at least 10°C

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microdroplets have a maximum particle size of 10 microns.

intervals between said treatments being approximately 3 or 4 weeks.

- 94. (new) The method of claim 93 wherein said potatoes are maintained at a temperature of at least 10°C during storage.
- potatoes are stored for at least three months, and said treatment is repeated intermittently during said storage, intervals between said treatments being approximately three or four weeks.
- 96. (new) The method of claim 95 wherein said potatoes are maintained at a temperature of at least 10°C during storage.
- 97. (new) The method of claim 84, wherein said potatoes are stored for at least three months, and said treatment is repeated intermittently 10-50% of the time during said storage.
- 98. (new) The method of claim 84, wherein said potatoes are stored for at least five months, and said treatment is repeated intermittently 10-50% of the time during said storage.

- 99. (new) The method of claim 84, wherein said potatoes are stored for at least five months, and said treatment is carried out substantially continuously during said storage.
- 100. (new) The method of claim 99 wherein said potatoes are maintained at a temperature of at least 10°C during storage.
- 101. (new) The method of claim 84, wherein said treatment further comprises inhibiting rooting of said potatoes.
- 102. (new) The method of claim 84, wherein said potatoes are seed potatoes, and said treatment comprises breaking epical dominance in said seed potatoes.